Dell™ Latitude™ 3000 Series
Latitude 14/Model 3440
Latitude 15/Model 3540
Technical Guidebook

August 2013

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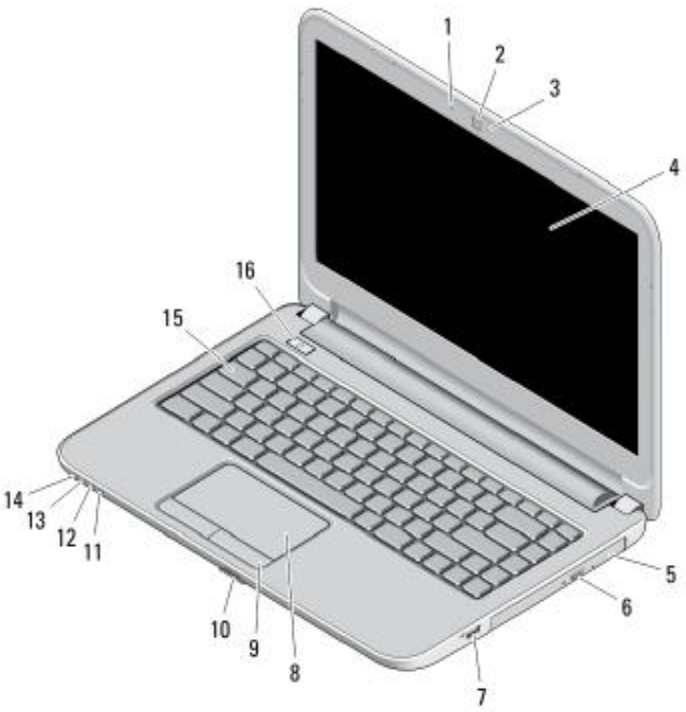
Latitude 3000 Series Product Views and Technical Specifications

Latitude 14 3000 Series Weight, Dimensions, Top/Right View



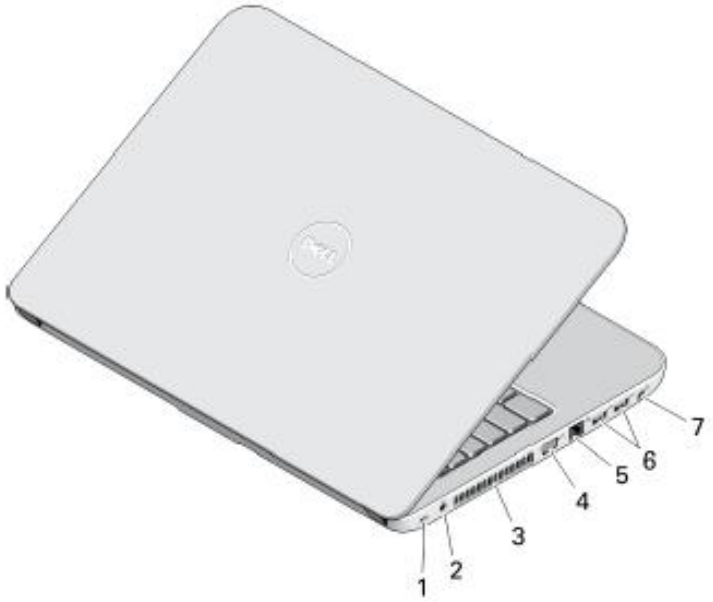
1. Microphone
2. Camera
3. Camera status light
4. Display
5. Optical drive
6. Optical drive eject button
7. USB 2.0 connector
8. Touchpad
9. Touchpad buttons (2)
10. SD Card Reader
11. Wireless status light
12. Battery status light
13. Hard drive activity light
14. Power status light
15. Keyboard
16. Power button

Starting weight:
4.3lbs (2.0kg) with a 4-cell battery

Dimensions:

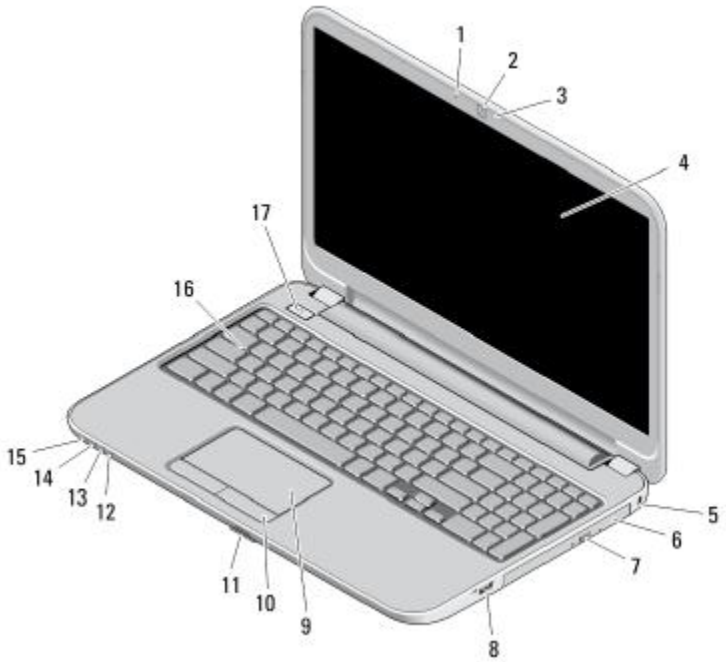
Width:	346.0 mm (13.62 inches)
Depth:	245.0 mm (9.65 inches)
Height;	25.0 mm (.98 inches)

Latitude 14 3000 Series Back/Left View



1. Security cable slot
2. Power connector
3. Cooling vents
4. VGA connector
5. Network connector
6. USB 3.0(2) connectors
7. Audio connector

Latitude 15 3000 Series Weight, Dimensions, Top/Right View



1. Microphone
2. Camera
3. Camera status light
4. Display
5. Security cable slot
6. Optical drive
7. Optical drive eject button
8. USB 2.0 connector
9. Touchpad
10. Touchpad buttons (2)
11. SD card reader
12. Wireless status light
13. Battery status light
14. Hard drive status light
15. Power status light
16. Keyboard
17. Power button

Starting weight:

4.8lbs (2.2kg) with a 4-cell battery

Dimensions:

Width:	376.0 mm (14.8 inches)
Depth:	259.0 mm (10.2 inches)
Height;	25.3 mm (.99 inches)

Latitude 15 3000 Series Back/Left View

1. Power connector
2. Cooling vents
3. VGA connector
4. Network connector
5. USB 3.0(2) connectors
6. USB 2.0 connectors
7. Audio connector

Latitude 14 3000 Series Technical Specifications

Model Number	Latitude 3440
Processor Options	4th Generation Intel ® Core i3 – 4010U processor 4th Generation Intel ® Core i5 – 4200U processor 4th Generation Intel ® Core i5 – 4300U processor 4th Generation Intel ® Core i7 – 4500U processor (offered only in Brazil)
Operating System Options	Windows 8, Windows 8 Pro, Window 8 Single Language (Emerging Market), all 64 Bit Windows 7 Home Premium, Windows 7 Professional, Windows 7 Home Basic (Emerging Market), 32 and 64 Bit Ubuntu 12.04 Long Term Support (LTS) SP1
Memory[1]	2GB DDR3L 1 DIMM 4GB DDR3L 1 DIMM 6GB DDR3L 2 DIMMs 8GB DDR3L 2 DIMMs
Chipset	Intel® HM87
Graphics	Intel® HD 4400 Graphics for 4th Generation Intel® processors nVidia GeForce™ GT 740M
Display Options	14.0" HD, (1366 X 768) 16:9, Anti-Glare 14.0" HD+, (1600 X 900) 16:9. Anti-Glare 14.0" HD, (1366 X 768) 16:9. Touchscreen with Truelife
Storage Options	1TB 5400 RPM Hard Drive 750GB 5400 RPM Hard Drive 500GB 5400 RPM Hard Drive 320GB 5400 RPM Hard Drive
Optical Drives	Internal / Non-Swappable Tray Load 8X DVD+/-RW

Latitude 14 3000 Series Technical Specifications

Multimedia	Integrated 720p HD video webcam and Dell Webcam Central software (Windows 7), Win8 provides native webcam software High Quality Speakers Stereo headphone/microphone combo jack Integrated microphone
Battery Options	4 cell (40 WHr) 6 cell (65 WHr)
Power Options	65W AC adapter 90W AC adapter
Connectivity Options	**Wireless LAN Options:** Dell Wireless™ 1705 1X1 802.11bgn + Bluetooth 4.0 Intel® 7260 2X2 802.11bgn + Bluetooth 4.0 + WiDi* *Requires an Intel wireless card, a compatible Media Adapter (sold separately) and an HDMI or composite AV-enabled display.
Ports & Slots, Expansion	Gigabit Ethernet (RJ-45) USB 3.0 (2), USB 2.0 (1) VGA 4in 1 memory card reader (SD, SDHC, MS, MS Pro) Kensington lock slot Stereo headphone/microphone combo jack Optional USB docking
Security	Dell Data Protection|Protected Workspace standard (1 yr free), Dell Data Protection|Security Tools standard, Dell Data Protection|Encryption (optional)
Dimensions & Weight[2]	346 mm x 245 mm x 25.0 mm (w/ 4 cell Non-Touch), 29.6 mm (w/ 6 cell Non-Touch) 346 mm x 245 mm x 27.9 mm (w/ 4 cell Touch), 32.9 mm (w/ 6 cell Touch) 13.62" x 9.65" x 0.98" (w/ 4 cell Non-Touch), 1.17" (w 6 cell Non-Touch) 13.62" x 9.65" x 1.1" (w/ 4 cell Touch), 1.3" (w/ 6 cell Touch) Starting weight: 4.3 lbs./2.0kg with 4 cell battery, 4.6 lbs./2.1 kg with 6 cell battery
Regulatory & Environmental Compliance	Regulatory Model: P37G Regulatory Type: P37G004 Energy Star 5.2 Qualified EPEAT Bronze Registered California (CEC) Battery Charger Regulation
NOTE: Optional features listed in this document are suggested offering for US only. Regional optional features may vary in other countries. EPEAT registration varies by country. Please see www.epeat.net for specific country registration and rating.	

[1] GB means 1 billion bytes and TB equals 1 trillion bytes; significant system memory may be used to support graphics, depending on system memory size and other factors, actual capacity varies with preloaded material and operating environment and will be less.
[2] Weights vary depending on configuration and manufacturing variability.

Latitude 15 3000 Series Technical Specifications

Model Number	Latitude 3540
Processor Options	4th Generation Intel ® Core i3 – 4010U processor 4th Generation Intel ® Core i5 – 4200U processor 4th Generation Intel ® Core i5 – 4300U processor 4th Generation Intel ® Core i7 – 4500U processor (offered only in Brazil)
Operating System Options	Windows 8, Windows 8 Pro, Window 8 Single Language (Emerging Market), all 64 Bit Windows 7 Home Premium, Windows 7 Professional, Windows 7 Home Basic (Emerging Market), 32 and 64 Bit Ubuntu 12.04 Long Term Support (LTS) SP1
Memory[1]	2GB DDR3L 1 DIMM 4GB DDR3L 1 DIMM 6GB DDR3L 2 DIMMs 8GB DDR3L 2 DIMMs
Chipset	Intel® HM87
Graphics	Intel® HD 4400 Graphics for 4th Generation Intel® processors AMD Radeon™ HD 8850M
Display Options	15.6" HD, (1366 X 768) 16:9, Anti-Glare 15.6" Full HD, (1920 X 1080) 16:9. Anti-Glare 15.6" HD, (1366 X 768) 16:9. Touchscreen with Truelife
Storage Options	1TB 5400 RPM Hard Drive 750GB 5400 RPM Hard Drive 500GB 5400 RPM Hard Drive 320GB 5400 RPM Hard Drive
Optical Drives	Internal / Non-Swappable Tray Load 8X DVD+/-RW

Latitude 14 3000 Series Technical Specifications

Multimedia	Integrated 720p HD video webcam and Dell Webcam Central software (Windows 7), Win8 provides native webcam software High Quality Speakers Stereo headphone/microphone combo jack Integrated microphone
Battery Options	4 cell (40 WHr) 6 cell (65 WHr)
Power Options	65W AC adapter 90W AC adapter
Connectivity Options	**Wireless LAN Options:** Dell Wireless™ 1705 1X1 802.11bgn + Bluetooth 4.0 Intel® 7260 2X2 802.11bgn + Bluetooth 4.0 + WiDi* *Requires an Intel wireless card, a compatible Media Adapter (sold separately) and an HDMI or composite AV-enabled display.
Ports & Slots, Expansion	Gigabit Ethernet (RJ-45) USB 3.0 (2), USB 2.0 (1) VGA 4in 1 memory card reader (SD, SDHC, MS, MS Pro) Kensington lock slot Stereo headphone/microphone combo jack Optional USB docking
Security	Dell Data Protection|Protected Workspace standard (1 yr free), Dell Data Protection|Security Tools standard, Dell Data Protection|Encryption (optional)
Dimensions & Weight[2]	376 mm x 259 mm x 25.3 mm (w/ 4 cell Non-Touch), 31.3 mm (w/ 6 cell Non-Touch) 376 mm x 259 mm x 27.85 mm (w/ 4 cell Touch), 33.85 mm (w/ 6 cell Touch) 14.8" x 10.2" x 0.99" (w/ 4 cell Non-Touch), 1.23" (w 6 cell Non-Touch) 14.8" x 10.2" x 1.1" (w/ 4 cell Touch), 1.33" (w/ 6 cell Touch) Starting weight: 4.8 lbs./2.2kg with 4 cell battery, 5.1 lbs./2.3 kg with 6 cell battery
Regulatory & Environmental Compliance	Regulatory Model: P28F Regulatory Type: P28F004 Energy Star 5.2 Qualified EPEAT Bronze Registered California (CEC) Battery Charger Regulation
NOTE: Optional features listed in this document are suggested offering for US only. Regional optional features may vary in other countries. EPEAT registration varies by country. Please see www.epeat.net for specific country registration and rating.	

[1] GB means 1 billion bytes and TB equals 1 trillion bytes; significant system memory may be used to support graphics, depending on system memory size and other factors, actual capacity varies with preloaded material and operating environment and will be less.
[2] Weights vary depending on configuration and manufacturing variability.

Marketing System Configurations

Latitude 3000 Series – Operating Systems

Windows operating system	Microsoft® Windows 8® 64 bit Microsoft® Windows 8® Single Language (Emerging Market) 64bit Microsoft® Windows 8® Pro 64 bit Microsoft® Windows 7® Home Basic (Emerging Market) SP1 (32 and 64 bit), Microsoft® Windows 7® Home Premium SP1 (32 and 64 bit), Microsoft® Windows 7® Professional SP1 (32 and 64 bit), (all Win 7 32 bit versions not available until Oct 2013)
Other	Linux Ubuntu 12.04 Long Term Support SP1

Intel® processor Technology

Haswell Architecture

Latitude 3000 Series is built with Intel 4th Generation Core Processor Technology

- 4th generation ULT (2-chip) Processor and Chipset
- Intel® Integrated HD Graphics 4400
- Intel® Wireless Display 4.1 driver included in Intel WLAN options

Processors Support List	UMA Graphics
Intel® Core™ i5-4200U	Intel® HD Graphics 4400
Intel® Core™ i3-4010U	Intel® HD Graphics 4400
Intel® Core™ i7-4500U (only available in Brazil)	Intel® HD Graphics 4400
Intel® Core™ i5-4300U (available Oct '13)	Intel® HD Graphics 4400

Memory

- Your computer supports a maximum of 8GB[1] of memory when you use two 4GB DIMMs; however, 32-bit operating systems, such as the 32-bit version of Microsoft® Windows® 7, can only use a maximum of 4GB of address space. Moreover, certain components within the computer require address space in the 4GB range. Any address space reserved for these components cannot be used by computer memory; therefore, the amount of memory available to a 32-bit operating system is less than 4GB.
- Greater than 4GB memory requires a 64-bit operating system.
- **ONLY MEMORY TYPE SUPPORTED: DDR3-LOW VOLTAGE ("DDR3L")**
- **NOT BACKWARD COMPATIBLE WITH DDR3 MEMORY**

Memory	14/15 3000 Series
DIMM Slots	2
Minimum Memory Configuration	2GB
Maximum Memory Configuration*	8GB
DIMM Configurations:	
8G 1600MHz DDR3L (2x4G)	x
6G 1600MHz DDR3L (1x4G+1x2G)	x
4G 1600MHz DDR3L (1x4G)	x
2G 1600MHz DDR3L (1x2G)	x

[1] 1GB means 1 billion bytes

Primary Storage

Primary Storage	14/15 3000 Series
320GB[1] 5400rpm	x
500GB[1] 5400rpm	x
750GB[1] 5400rpm	x
1TB 5400rpm	x

[1] 1GB means 1 billion bytes

Connectivity Options

	Connectivity Option	14/15 3000 Series
WLAN	Intel® Centrino® 7260 Wireless + WiDi (802.11a/b/g/n 2x2 + Bluetooth 4.0)	x
	Dell Wireless™ DW1705 Wi-Fi (802.11b/g/n 1x1 + Bluetooth 4.0)	x

WWAN – Not supported on Latitude 14/15 3000 Series

NOTE : Standalone Bluetooth 4.0 module is no longer available. Bluetooth 4.0 is only available via WLAN+BT combo cards, such as the Intel® Centrino® 7260 as indicated above.

Security and Keyboard specifications

Security Software	14/15 3000 Series
Dell Data Protection|Security Tools (standard)	X
Dell Data Protection|Protected Workspace (standard) (1 yr free)	X
Dell Data Protection|Encryption (optional)	X
NOT FIPS certified Trusted Platform Module (TPM)	X

Keyboard Specs	
Number of keys	104 (U.S. and Canada) 105 (Europe) 107 (Brazil) 108 (Japan)
Layout	QWERTY/AZERTY/Kanji
Size	full sized (19-mm key pitch)
Backlit keyboard option	• None

Detailed Engineering Specifications

320GB HDD 5400 RPM

320GB HDD 5400 RPM	
Capacity (GB)	320GB
Dimensions inches (W x D x H)	Approximately (2.760 x 3.959 x 0.276 inches)
Interface type and Maximum speed	Up to 6Gb/s (SATA 3.0)
MTBF	550,000 hours
Logical Blocks	625142448
Power Source	
Power Consumption (reference only)	Idle 0.7W, Active 3.25 W

Environmental Operating Conditions (Non-Condensing):	
Temperature Range	5°C to 60°C
Relative Humidity Range	5 to 90%
Op Shock (@2ms)	350G
Environmental Non-Operating Conditions (Non-Condensing):	
Temperature Range	-40°C to 65°C
Relative Humidity Range	5 to 95%

[1] For hard drives, GB means 1 billion bytes ; actual capacity varies with preloaded material and operating environment and will be less.

500GB HDD 5400 RPM

500GB HDD 5400 RPM	
Capacity (GB)	500GB
Dimensions inches (W x D x H)	Approximately (2.760 x 3.959 x 0.276 inches)
Interface type and Maximum speed	Up to 6Gb/s (SATA 3.0)
MTBF	550,000 hours
Logical Blocks	976773168
Power Source	
Power Consumption (reference only)	Idle 0.7W, Active 3.25W

Environmental Operating Conditions (Non-Condensing):	
Temperature Range	5°C to 60°C
Relative Humidity Range	5 to 90%
Op Shock (@2ms)	350G
Environmental Non-Operating Conditions (Non-Condensing):	
Temperature Range	-40°C to 65°C
Relative Humidity Range	5 to 95%

[1] For hard drives, GB means 1 billion bytes ; actual capacity varies with preloaded material and operating environment and will be less.

750GB HDD 5400 RPM

750GB HDD 5400 RPM	
Capacity (GB)	750GB
Dimensions inches (W x D x H)	Approximately (2.760 x 3.959 x 0.374 inches)
Interface type and Maximum speed	Up to 6Gb/s (SATA 3.0)
MTBF	550,000 hours
Logical Blocks	1465149168
Power Source	
Power Consumption (reference only)	Idle 0.7W, Active 3.10 W

Environmental Operating Conditions (Non-Condensing):	
Temperature Range	5°C to 60°C
Relative Humidity Range	5 to 90%
Op Shock (@2ms)	350G
Environmental Non-Operating Conditions (Non-Condensing):	
Temperature Range	-40°C to 65°C
Relative Humidity Range	5 to 95%

[1] For hard drives, GB means 1 billion bytes ; actual capacity varies with preloaded material and operating environment and will be less.

1TB HDD 5400 RPM

1TB HDD 5400 RPM	
Capacity (GB)	1TB
Dimensions inches (W x D x H)	Approximately (2.760 x 3.959 x 0.374 inches)
Interface type and Maximum speed	Up to 6Gb/s (SATA 3.0)
MTBF	550,000 hours
Logical Blocks	1953525168
Power Source	
Power Consumption (reference only)	Idle 0.7W, Active 3.25 W

Environmental Operating Conditions (Non-Condensing):	
Temperature Range	5°C to 60°C
Relative Humidity Range	5 to 90%
Op Shock (@2ms)	350G
Environmental Non-Operating Conditions (Non-Condensing):	
Temperature Range	-40°C to 65°C
Relative Humidity Range	5 to 95%

[1] For hard drives, GB means 1 billion bytes ; actual capacity varies with preloaded material and operating environment and will be less.

Optical Drive

DVD +/- RW [1] Ultra-slim:	
External Dimensions (inches/centimeters (Without Bezel – W x H x D)	128.0 mm (5.04)/ 9.5mm (0.37 in)/ 126.1mm (4.97in)
Weight (max) pounds/kilograms	140g
Interface type and speed	SATA 1.5Gbit/s
Disc Capacity	Standard
Internal buffer size	Supplier dependent
Access times	Supplier dependent
Maximum data transfer rates	Reads 8x DVD / 24x CD, Writes 8x DVD / 24x CD
Power Source	DC Power Requirements – 5V, DC Current - 800mA[2]
Environmental Non-Operating Conditions (Non-Condensing):	
Temperature Range	-40°C to 65°C
Relative Humidity Range	5% to 95% RH
Maximum Wet Bulb Temperature	29°C
Altitude Range	-200 to 10600m
Environmental Operating Conditions (Non-Condensing):	
Temperature Range	5°C to 50°C
Relative Humidity Range	20% to 80% RH
Maximum Wet Bulb Temperature	29°C
Altitude Range	-200 to 3048m

[1] Discs burned with this drive may not be compatible with some existing drives and players; using DVD+R media provides maximum compatibility.

[2] Current after initial inrush. Inrush current (width ≥2ms) up to 1300mA max.

Ports and Connectors

Latitude 14/15 3000 Series	
Ports, Slots & Chassis	Network connector (RJ-45)
	USB 3.0 (2) and USB 2.0 (1)
	Stereo headphone/Microphone combo jack
	VGA
	4 in 1 Media Card Reader

Webcam Specifications

Easy Remote Collaboration:

- Videoconference online with an optional built-in camera.
- Dell Webcam Central software pre-installed for camera setup on MS Windows 7 configurations only

Webcam Features	Latitude 14/15 3000 Series
Camera Type	HD fixed focus
Sensor Type	CMOS sensor technology
Resolution: Motion Video	Up to 1280 x 720 (0.92 MP)
Resolution: Still Image	Up to 1280 x 720 (0.92MP)
Imaging Rate	Up to 30 frames per second

Wireless Communications: Wi-Fi (WLAN)

Dell Wireless™ 1705 (WiFi 802.11b/g/n 1x1 + Bluetooth 4.0)	
Host interface	PCI Express™ Half Mini-Card
Network standard	802.11b, 802.11g, and 802.11n
Wi-Fi Alliance Certifications	802.11b, 802.11g, WPA, WPA2, WMM
Operating Frequency Bands	2.4 GHz (802.11b/g/n)
Dual Diversity Antenna Switching	Dual diversity antenna switching for systems designed with main and auxiliary antennas.
Data Rate	802.11n - Up to 150 Mbps for HT40MHz ; 802.11n – Up to 72.2 Mbps for HT20MHz 802.11g - Up to 54 Mbps ; 802.11b - Up to 11 Mbps
Receive Sensitivity	802.11n: -61 dBm @ 150 Mbps ; -64 dBm @ 72.2Mbps 802.11g: -65 dBm @ 54 Mbps 802.11b: -79 dBm @ 11 Mbps
Security **Authentication** **EAP Methods** **Single Sign On** **Encryption** **Cisco Compatible Extensions**	 Open, Shared, WPA, WPA-PSK, WPA2, WPA2-PSK, CCKM MD5, LEAP, EAP-FAST, EAP-TLS, PEAP(TLS, MS-CHAPv2, GTC) Open, Shared, MD5, LEAP, EAP-FAST, EAP-TLS,PEAP(TLS, MS-CHAPv2, GTC), Smart Cards WEP (64 bit/128 bit), CKIP (XP), TKIP, AES-CCMP Version 5 (Windows 7)
Software Support	Microsoft® WHQL certified for Windows® 7 and Windows® 8
Radio On/Off	Hardware and software on/off disables transmit and receive to comply with aviation in-flight restrictions
LED output	Wireless enable.
Humidity Non-Operating	Up to 95%
Temperature	Operational 0 to 70C; Storage -20 to 70C
Roaming	Seamless roaming between 802.11b, 802.11b/g, and 802.11n access points
Wake On Wireless	Supported when using Magic Packet over the Air

Wireless Communications: (continued)

Dell Wireless™ 1705 (WiFi 802.11b/g/n 1x1 + Bluetooth 4.0)	
Wireless PAN Standard	Dual Mode Bluetooth* 2.1, 2.1+EDR, 3.0, 3.0+HS, 4.0 (BLE)
Bluetooth Data rates	Up to 3Mbps
Bluetooth Operating Frequency Bands	2.4GHz
Transmission	FHSS (Frequency Hopping Spread Spectrum)
Bluetooth Data Encryption	128-bit encryption
Bluetooth Output Power	0~4dBm
Receiver Sensitivity	-70dBm
Temperature	Operational 0 to 70C; Storage -20 to 70C
Humidity	Up to 95%

Wireless Communications:

Intel® Wireless-N 7260 (WiFi 802.11b/g/n 2x2 + Bluetooth 4.0 + WiDi)	
Host interface	Half Mini Card form factor, based on PCIe electrical interface
Network standard	IEEE 802b/g/n
Wi-Fi Alliance Certifications	Wi-Fi Certified for 802.11b, 802.11g, 802.11n, WMM, WPA, WPA2, and WPS Wi-Fi Direct for peer to peer device connections
Operating Frequency Bands	2.4 GHz
Dual Stream N	Support for two transmit and receive antennas enable better wireless at the same distance when compared to older 802.11b/g solutions.
Data Rate	Up to 300 Mbps
Power Consumption	Optimized power modes (sleep states) reduce power consumption during periods of inactivity
Authentication **Authentication Protocols** **Encryption** **Product Safety**	WPA and WPA2, 802.1X,(EAP-TLS, TTLS, PEAP, LEAP, EAP-FAST), EAP-SIM, EAP-AKA PAP, CHAP, TLS, GTC, MS-CHAP*, MS-CHAPv2 64-bit and 128-bit WEP, AES-CCMP, TKIP UL, C-UL, CB(IEC60950-1)
Management Capabilities Alerting	AMT 9.0
Government Compliance	FIPS (Windows® 7 only), FISMA
Client Utility	Intel® PROSet/Wireless Software v16.x
Software Support	Microsoft® WHQL certified for Windows® 7, and Windows® 8; Linux
Radio On/Off	Supported in both hardware and software
LED output	Single WLAN-LED (as per Mini Card specification)
Roaming	Supports seamless roaming between respective access points (802.11b, 802.11g, 802.11b/g, and 802.11b/g/n)
Wake On Wireless	Supported when VPro/AMT is activated, or Windows® 8 without Intel AMT
Wireless Display	Intel WiDi Wireless Display, supports external display resolutions up to 1080p

Wireless Communications: (continued)

Intel® Wireless-N 7260 (WiFi 802.11b/g/n 2x2 + Bluetooth 4.0 + WiDi)	
Wireless PAN Standard	Dual Mode Bluetooth* 2.1, 2.1+EDR, 3.0, 3.0+HS, 4.0 (BLE)
Bluetooth Data rates	Up to 3Mbps
Bluetooth Operating Frequency Bands	2.4GHz
Bluetooth Profiles Supported	Includes Streaming Stereo Quality Audio (A2DP), File Transfer (FTP), Dial-up Networking (DUN), Mice/Keyboards (HID), Printing (BPP), Digital Image Management (transfer, print, remote camera operation) (BIP), AVRCP
Bluetooth Data Encryption	128-bit encryption
Bluetooth Output Power	Power class 1
Temperature	operating temperature 0° to +80° C storage temperature of –40° to +70° C
Humidity	Up to 90% RH non-condensing (at temperatures of 25° C to 35° C)

Wired Communications

Network Adapter (NIC) – Intel – Latitude 14 & 15 3000 Series	
Intel® I217 Gigabit Ethernet Controller	Integrated on system board
External connector type	RJ-45
Data Rates	10/100/1000 Mbps
Controller bus architecture	PCI-e V1.1x1
Power consumption (standby operation)	No Link (low power mode): 17 mW No Link (w/ WOL): N/A (can't wake on LAN when there is no cable/link) 10 Mbps Idle (w/ WOL): 73 mW 100 Mbps Idle (w/ WOL): 180 mW
IEEE standards compliance	802.3, 802.3ab, 802.3u, 802.az
Boot ROM Support	PXE
Network Transfer Rate	Full duplex at 10, 100, or 1000 Mbps and half duplex at 10 or 100 Mbps.
Operating Temp/Storage Temp	0C to 85C/-40C to 125C
Operating Humidity	20% to 80% (non-condensing)
Operating System Driver support	DOS, Win Server 2008/2012, Linux, Win7, Win8
Manageability	WOL, PXE
Management Capabilities Alerting	AMT 9.0 / DASH 1.1

Integrated Graphics Controller

Integrated Graphics Controller	Intel HD, HD 4400 (Intel Haswell i3/i5/i7 Processors)
Model	Latitude 14 & 15 3000 Series
Bus Type	Internal PCIe
Memory Interface	N/A (unified memory architecture)
Clock Speeds	Core i7: 200 MHz graphics core Core i5: 200 MHz Core i3: 200 MHz
Max Graphics dynamic frequency	Core i7: 1100MHz Core i5: 1000 MHz Core i3: 950/1000 MHz
Estimated Maximum Power Consumption	NA
Display Support	LVDS (internal), Analog VGA
Maximum Color Depth	32bit
Maximum Vertical Refresh Rate	Up to 85Hz depending on resolution
Operating Systems Graphics/ Video API Support	DirectX 11,1 (Windows 8 only), OpenGL 4.0
Supported Resolutions and Max Refresh Rates (Hz) (Note: Analog and/or digital)	Analog: (VGA) 1920x1200/32bpp @ 60Hz
Numbers of Displays Supported	2 max

nVidia Discrete Graphics Controller

Graphics Controller	nVidia GeForce™ GT 740M
Models	Latitude 14 3000 Series
Graphics Memory	2GB DDR3
Bus Type	Internal PCIe
Memory Interface	64-Bit
Clock Speeds	980 MHz graphics core
Estimated Maximum Power Consumption	25W
Display Support	LVDS(internal), Analog VGA(external)
Maximum Color Depth	32bit (16.7 million)
Maximum Vertical Refresh Rate	Up to 85Hz depending on resolution
Operating Systems Graphics/ Video API Support	DirectX 11.1, OpenGL 4.3
Supported Resolutions and Max Refresh Rates (Hz) (Note: Analog and/or digital)	Analog: (VGA) 1920x1200/32bpp @ 60Hz
Numbers of Displays Supported*	2 (max)

AMD Discrete Graphics Controller

Graphics Controller	AMD® Radeon HD™ 8850M (GDDR5 2GB) Discrete Graphics with AMD PowerXpress™
Models	Latitude 15 3000 Series
Graphics Memory	2GB GDDR5
Bus Type	Internal PCIe
Memory Interface	64-Bit
Clock Speeds	575~625 MHz graphics core
Estimated Maximum Power Consumption	25W
Display Support	LVDS(internal), Analog VGA(external)
Maximum Color Depth	32bit (16.7 million)
Maximum Vertical Refresh Rate	Up to 85Hz depending on resolution
Operating Systems Graphics/ Video API Support	DirectX 11.1, OpenGL 4.1
Supported Resolutions and Max Refresh Rates (Hz) (Note: Analog and/or digital)	Analog: (VGA) 1920x1200/32bpp @ 60Hz
Numbers of Displays Supported*	2 (max)

Display

Latitude 14 3000 Series	14.0" HD Anti-Glare LCD display with LED backlight
Type	HD Anti-Glare
Luminance (typical)	200 nits
Dimensions	
Height	205.6mm(maximum)
Width	320.9mm(maximum)
Diagonal	14.0"
Native Resolution	HD 1366x768
Megapixels	1.05
Pixels per Inch (PPI)	112
Contrast Ratio (min)	400:1
Response Time (max)	25 msec rise/fall
Refresh Rate	60 Hz
Horizontal View Angle	+40/- 40 degrees
Vertical View Angle	+10/-30 degrees
Pixel Pitch	0.2265 mm
Power Consumption (maximum)	3.8W

Display

Latitude 14 3000 Series	14.0" HD+ Anti-Glare LCD display with LED backlight
Type	HD+ Anti-Glare
Luminance (typical)	300 nits
Dimensions	
Height	205.6mm(maximum)
Width	320.9mm(maximum)
Diagonal	14.0”
Native Resolution	HD+ 1600x900
Megapixels	1.44
Pixels per Inch (PPI)	131
Contrast Ratio (min)	400:1
Response Time (max)	25 msec rise/fall
Refresh Rate	60 Hz
Horizontal View Angle	+40/- 40 degrees
Vertical View Angle	+10/-30 degrees
Pixel Pitch	0.1932 mm
Power Consumption (maximum)	6.3W

Display

Latitude 14 3000 Series	14.0" HD Touch Anti-Glare LCD display with LED backlight
Type	HD True Life touch
Luminance (typical)	180 nits
Dimensions	
Height	334.69mm
Width	212.67mm
Diagonal	
Native Resolution	HD 1366x768
Megapixels	1.05
Pixels per Inch (PPI)	112
Contrast Ratio (min)	400:1
Response Time (max)	25 msec rise/fall
Refresh Rate	60 Hz
Horizontal View Angle	+40/- 40 degrees
Vertical View Angle	+10/-30 degrees
Pixel Pitch	0.2265 mm
Power Consumption (maximum)	4.0 W

Display

Latitude 15 3000 Series	15.6" HD Anti-Glare LCD display with LED backlight
Type	HD Anti-Glare
Luminance (typical)	200 nits
Dimensions	
Height	224.3mm(maximum)
Width	360.0mm(maximum)
Diagonal	15.6”
Native Resolution	HD 1366x768
Megapixels	1.05
Pixels per Inch (PPI)	101
Contrast Ratio (min)	300:1
Response Time (max)	25 msec rise/fall
Refresh Rate	60 Hz
Horizontal View Angle	+40/- 40 degrees
Vertical View Angle	+10/-30 degrees
Pixel Pitch	0.252 mm
Power Consumption (maximum)	4.1 W

Display

Latitude 15 3000 Series	15.6" FHD Anti-Glare LCD display with LED backlight
Type	FHD Anti-Glare
Luminance (typical)	300 nits
Dimensions	
Height	224.3mm(maximum)
Width	360.0mm(maximum)
Diagonal	15.6”
Native Resolution	FHD 1920x1080
Megapixels	2.07
Pixels per Inch (PPI)	141
Contrast Ratio (min)	500:1
Response Time (max)	25 msec rise/fall
Refresh Rate	60 Hz
Horizontal View Angle	+40/- 40 degrees
Vertical View Angle	+10/-30 degrees
Pixel Pitch	0.179 mm
Power Consumption (maximum)	8.0W

Display

Latitude 15 3000 Series	15.6" HD Touch Anti-Glare LCD display with LED backlight
Type	HD Anti-Glare Touch
Luminance (typical)	200 nits
Dimensions	
Height	224.3mm(maximum)
Width	360.0mm(maximum)
Diagonal	15.6"
Native Resolution	HD 1366x768
Megapixels	1.05
Pixels per Inch (PPI)	101
Contrast Ratio (min)	300:1
Response Time (max)	25 msec rise/fall
Refresh Rate	60 Hz
Horizontal View Angle	+40/- 40 degrees
Vertical View Angle	+10/-30 degrees
Pixel Pitch	0.252 mm
Power Consumption (maximum)	4.1 W

Latitude 3000 Series – Battery Specification

	4-cell 40Whr	6-cell 65Whr
Battery Type	Lithium ion	Lithium ion
Dimension		
Length	272.4 mm	272.4 mm
Width	46.3 mm	46.3 mm
Height	20.00 mm	35.4 mm
Weight	260 g	360 g
Voltage	14.8VDC	11.1VDC
Typical Amp-hour capacity	2.8Ahr	6.0Ahr
Typical Watt-hour capacity	40Whr	65Wh
Temperature		
Operating	Charge: 0 ° C to 50 ° C Discharge: 0 ° C to 70 ° C Operating: 0° to 35° C (32° to 95° F) Storage: –40° to 65° C (–40° to 149° F)	Charge: 0 ° C to 50 ° C Discharge: 0 ° C to 70 ° C Operating: 0° to 35° C (32° to 95° F) Storage: –40° to 65° C (–40° to 149° F)
Life span (approximate)	300 discharge/charge , 1 year	300 discharge/charge , 1 year
Charging time (approximate)	System off @25deg C within 4hrs	System off @25deg C within 4hrs
ExpressCharge Capable	No	No
BATTMAN Capable	No	No
DTM/LM Capable	Yes	Yes

Power Adapters

Adapter Specifications	E5 65W 7.4mm	E5 90W 7.4mm
Input voltage	100 to 240 VAC	100 to 240 VAC
Input current (max)	1.5 A	1.6 A
Input frequency	50 to 60 Hz	50 to 60 Hz
Output current	3.34 A (continuous)	4.62 A (continuous)
Rated output voltage	19.5 VDC	19.5 VDC
Weight (lbs)	0.51	0.70
Weight (kg)	0.23	0.32
Dimensions (inches)	0.87 x 2.60 x 4.17	0.87 x 2.60 x 5.12
Dimensions (mm)	22 x 66 x 106	22 x 66 x 130
Temperature range: Operating	0º to 40ºC 32º to 104ºF	0º to 40ºC 32º to 104ºF
Storage	-40º to 70ºC -40º to 158ºF	-40º to 70ºC -40º to 158ºF

- AC adapters are compliant with the ErP II Lot 6 new Europe Regulatory Power Requirements effective 1/3/2013

Latitude Keyboards Hot Key Definition

Keyboard Shortcuts	
Fn+F1 – Standby	Puts the system into Standby (S3) - does not wake the system.
Fn+F3 – Scroll lock	Used as Scroll Lock key.
Fn+F5 – Touchpad and Stick	Enables/disables the Touchpad and Stick. The hot key cycles through the following states when pressed: Touchpad disable (Stick enabled) -> Stick disable (Touchpad enabled) -> Touchpad and Stick disable -> Touchpad and Stick enable -> …
Fn+F8 – LCD and Projector display	Determines video output to LCD and external Video device(s) when attached and display(s) present. While running the OS, the scan-code is passed from the BIOS to the OS and will cycle through the following states when pressed: Computer only -> Duplicate -> Extend -> Projector only – based on priority see reference below (example: LCD only -> duplicate LCD & DP -> extended LCD & DP -> DP only). When in DRMK/DOS, the video only cycles through attached devices one at a time, not extended (example: LCD only -> DP only -> DVI only -> VGA only).

Keyboard Shortcuts	
Fn+Home – SysRq (System Request)	Used as SysRq key.
Fn+End – Print Screen	Used as Print Screen key.
Fn+Insert – Pause	Used as Pause key.
Fn+UpArrow – Brightness Increase	Increases the stepping of LCD brightness for each press unless maximum is reached.
Fn+DownArrow – Brightness Decrease	Decreases the stepping of LCD brightness for each press unless minimum is reached.
Fn+RightArrow – KB Illumination/Backlight	Determines the Keyboard Illumination/Backlight brightness levels. The hot key cycles through the following brightness states when pressed: Disabled, 25%, 50%, 75%, 100%.

Touch Pad Specifications

Touch Pad	
X/Y position resolution	600dpi
Size	Sensor-active area: • Width: 90mm (3.54") • Height: 44mm (1.73")
Multi-Touch	Configurable Single Finger and Multi-Finger gestures

Supported Gestures	Windows 7	Windows 8
Circular Scrolling	Supported (disabled by default)	Not supported
Drag Lock	Supported	Supported
Edge Swipe	Not supported	Supported
Horizontal / Vertical Scroll Zones	Supported (disabled by default)	Not supported
Zoom Zones	Supported (disabled by default)	Not supported
Zig Zag	Supported (no checkbox to disable)	Supported (no checkbox to disable)
2-finger Pan / Scroll	Supported	Supported
2-finger Pinch Zoom	Supported (disabled by default)	Supported
2-finger Rotate	Supported (disabled by default)	Supported (disabled by default)
2-finger Tap	Not supported	Supported (no checkbox to disable)
3-finger Flick Right/Left/Up/Down	Supported	Supported (disabled by default)

Operating conditions

Models	Latitude 14/15 3000 Series
Temperature Range	Operating 0° to 40°C (32° to 104°F) Storage –40° to 65°C (–40° to 149°F)
Relative humidity (maximum)	Operating 10% to 90% (non-condensing) Storage 5% to 95% (non-condensing)

Link to Product Safety, EMC and Environmental Data Sheets:
http://www.dell.com/content/topics/global.aspx/about_dell/values/regulatory_compliance/dec_conform?c=us&cs=04&l=en&s=bsd&redirect=1